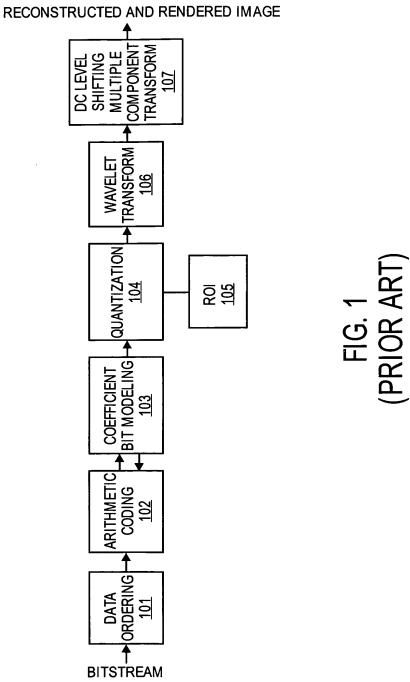


1/26

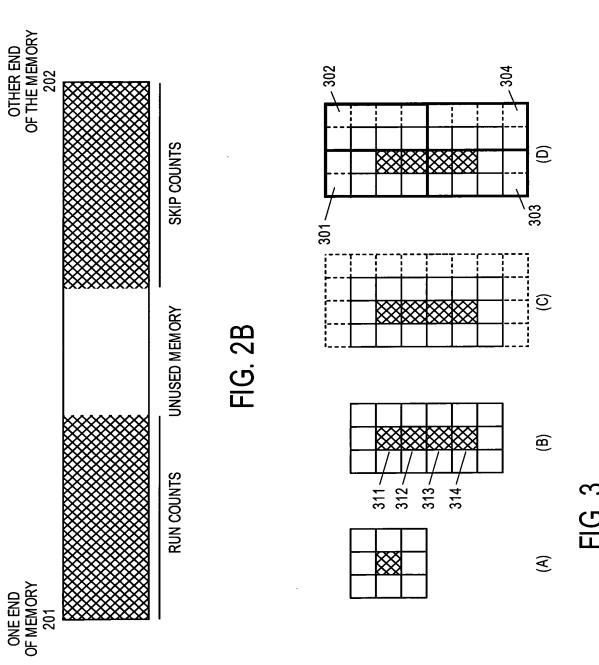


2/26

1	SP I	SP 4	C 8	1	C 12	C 16	C 20	I I	C 24		C 28	
	R 1	SP 5	C 9		C 13	C 17	C 21		C 25		C 29	
	R I 2 I	I SP I	SP I 10 I	1	SP I 14 I	I SP I I 18 I	I C I 22 I	-	C 26		C 30	
1	SP I	SP 7 1	R I 11 I		R I 15 I	SP 19	C 23		C 27	- 1	C 31	
	C 32	I SP I	SP I		SP 44 	SP 48	l C I 52		C 56		60	
	C 33	C 37	C 41		C 45	C 49	C 1 53		C 57		C 61	
	C 34	C 38	C 42		C 46	C 50	C 54		C 58		C 62	
	C 25	I C I 39	C 43	I I I	C 47	C 51	C 55		C 59		C 63	

FIG. 2A (PRIOR ART)

3/26



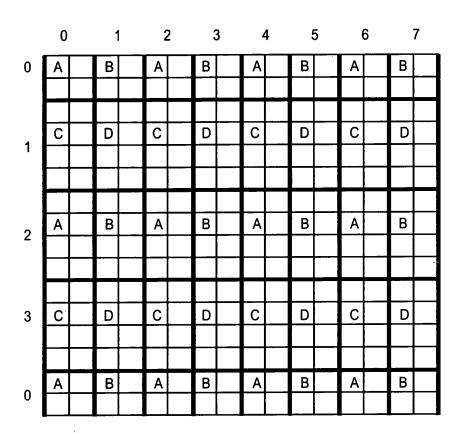
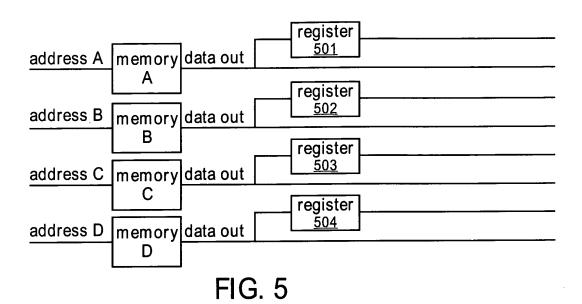


FIG. 4



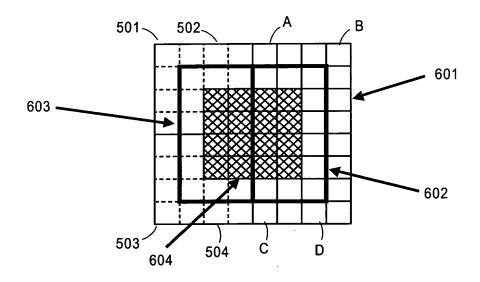
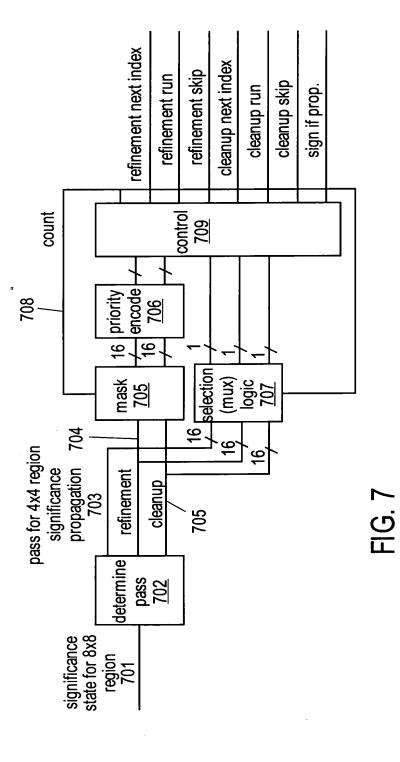


FIG. 6



SP pass: 10*2 for SP pass coefficients 6 for C and R pass coefficients

C pass: 4*2 for C pass coefficients R pass: 2 for R pass

SP = significance propagation C = cleanup

ပ

ပ

ပ

S

S S

S S

S S R = refinement

S

Sp

SP

S

S

<u>~</u>

œ

S

total: 36 clocks = 2.25 clocks per coefficient

FIG. 8

7/26

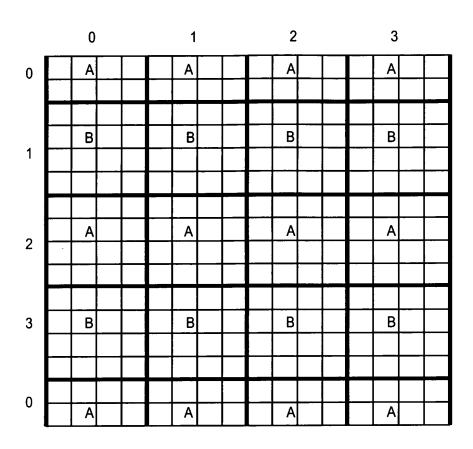
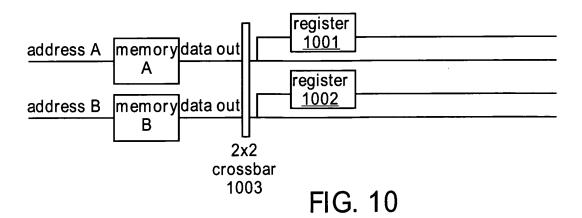
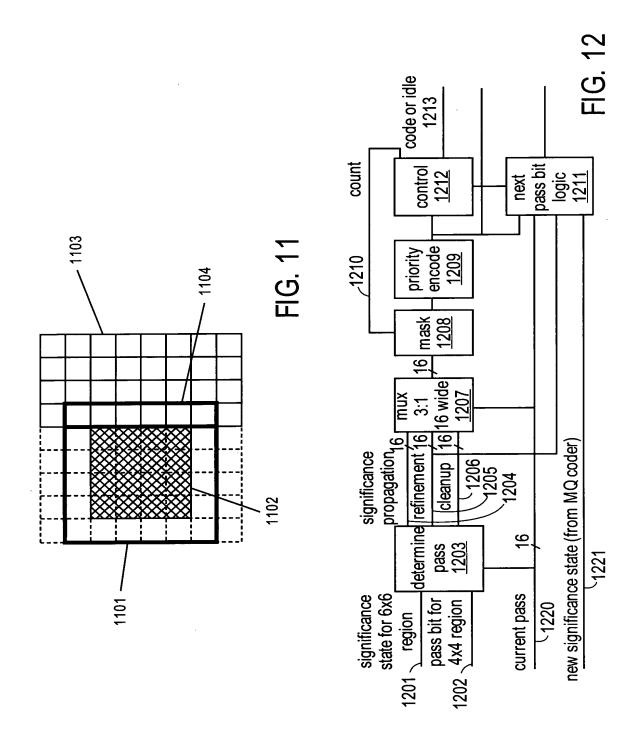


FIG. 9





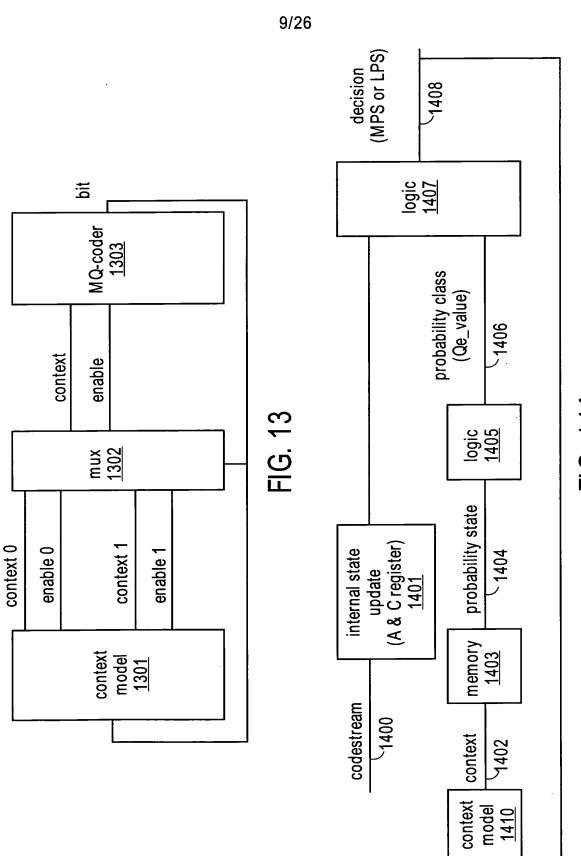


FIG. 14A

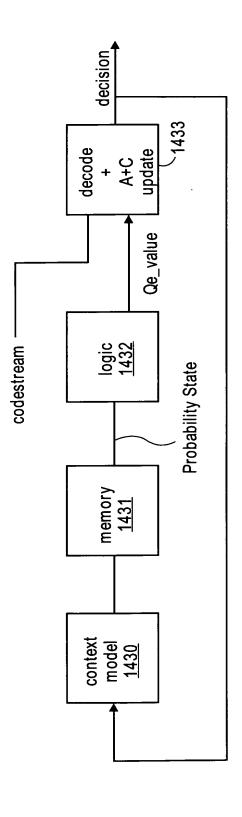
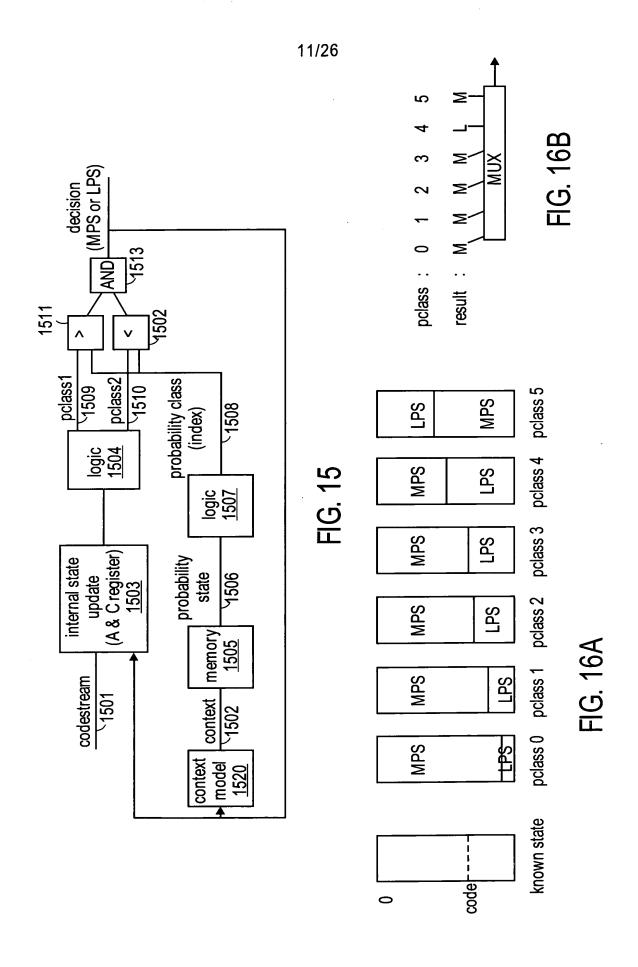


FIG. 14B



12/26

5MPS 4 MPS 3 MPS 2 MPS 1 MPS LPS

FIG. 17

13/26

lumir	nance	chron	ninance	chrominance				
A A A A	D	B B B B	D	C C C C	D			
A	Α	В	В	С	С			
A A A A	В	C C C C	D	E E E	F			
В	Α	D	С	F	Е			
(B)								
F F B	С	G G C B C	F	E E E D D	E			
Α	В	D	Н	G	Н			
(C)								

(C)

FIG. 18

14/26

lumin	ance	chrominance	chrominance
A A A A	В	C C C	D D D D D
В	A	С	D
		(A	A)
F F F	С	B B C A B	DD F EE
А	В	D	E
		(B	3)
A A A A B	C	E E E E F	G G G G G G H
		(0	

FIG. 19

15/26

lumir	nance	chrominance	chrominance			
A A D D A	С	B B D D B	C C D D C			
А	В					
		(A)				
A A A A	С	E E E	F F F			
В	D					
		(B)				
A A A A B A	E	F F H B F	G G H B G			
С	D					
		(C)				

FIG. 20

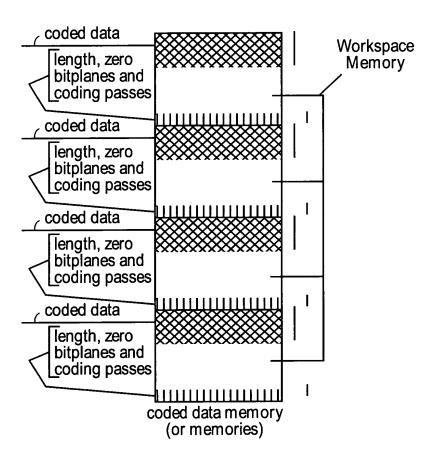


FIG. 21

17/26

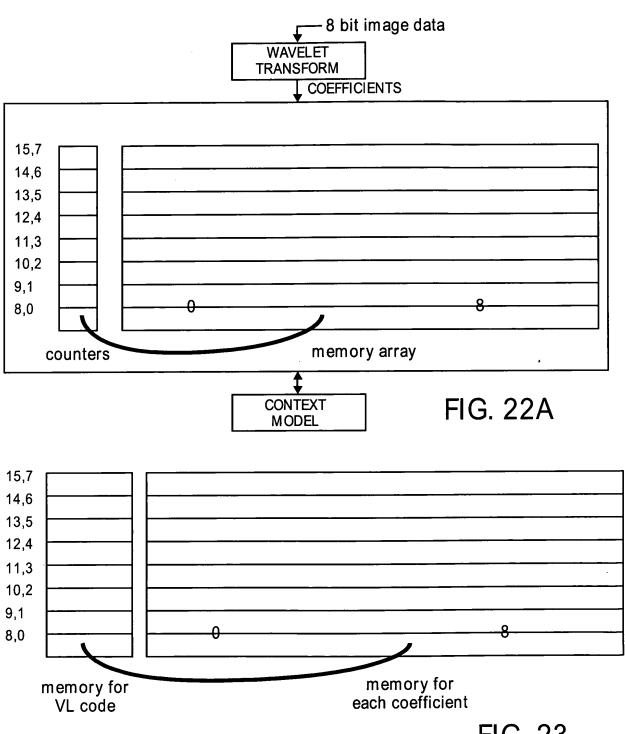


FIG. 23

18/26

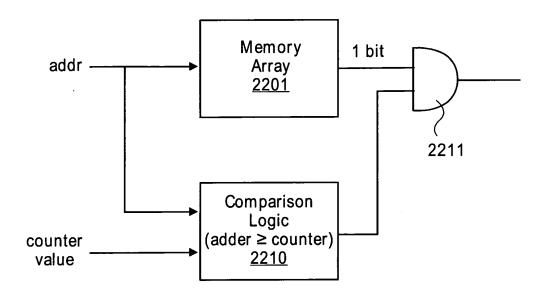
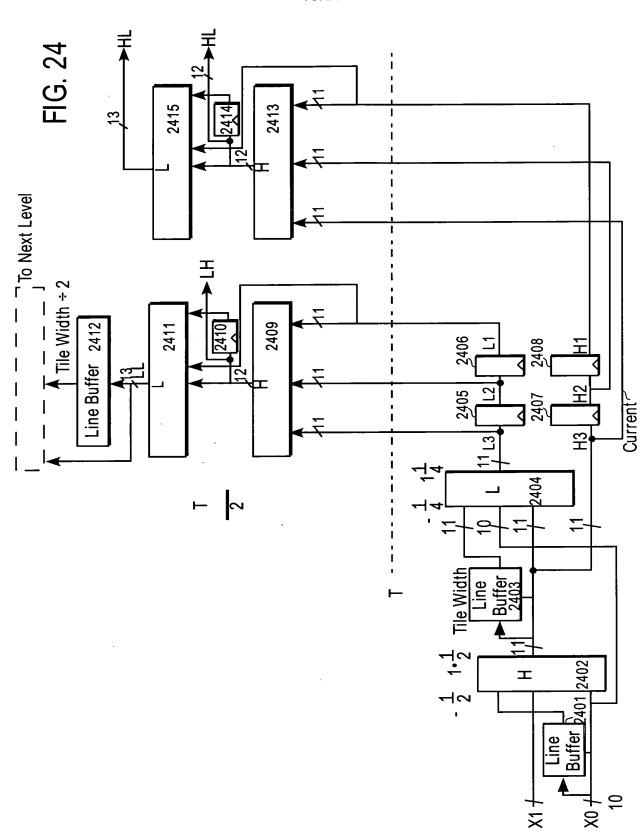
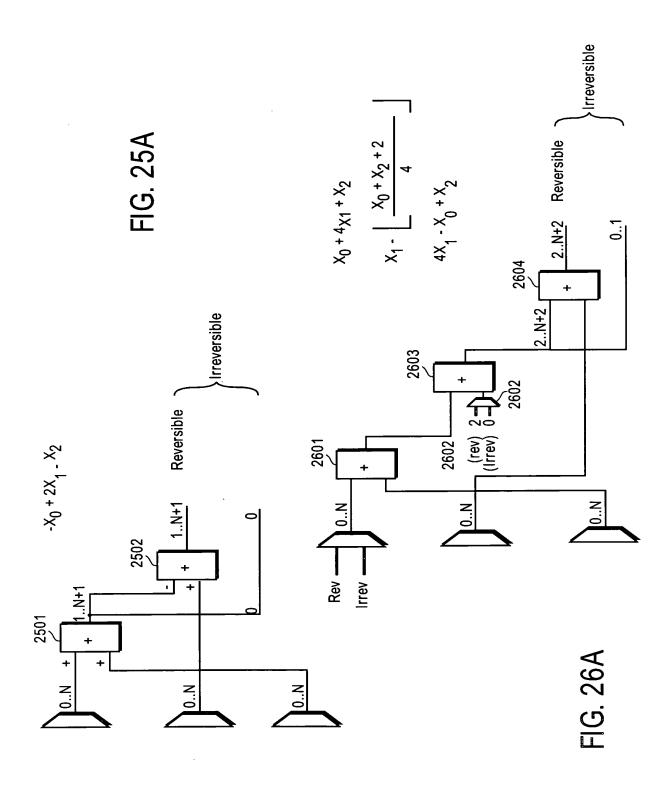


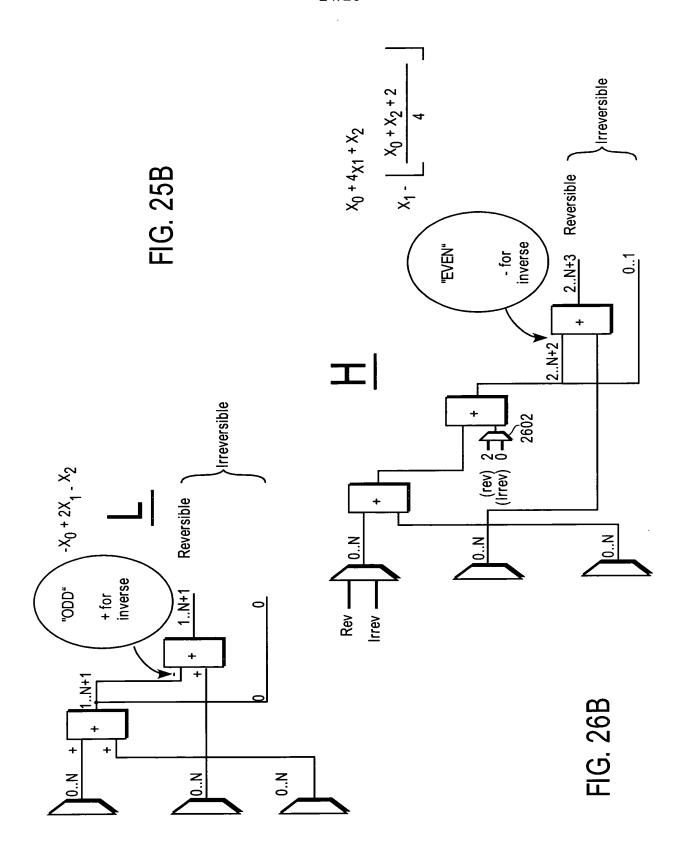
FIG. 22B

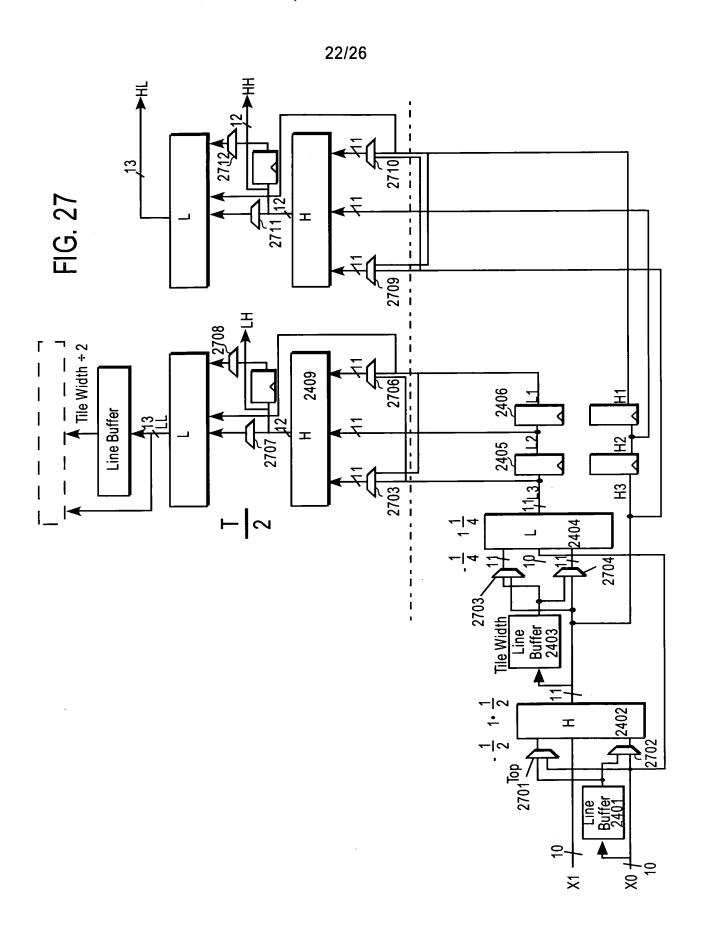


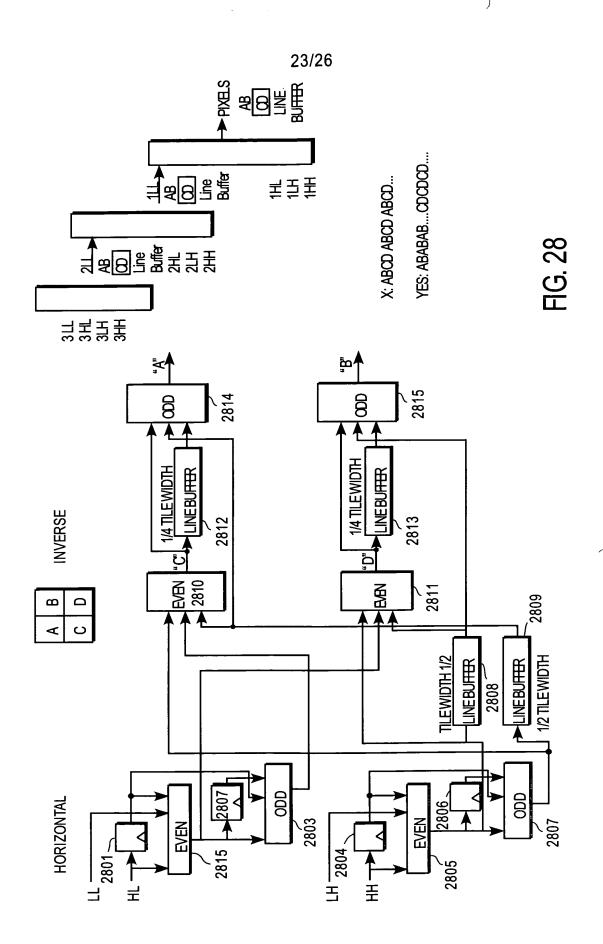


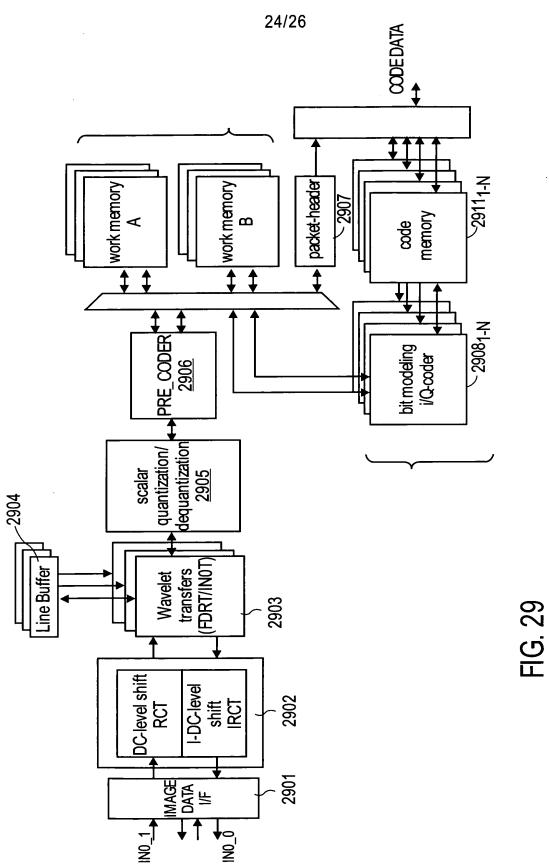


21/26









25/26

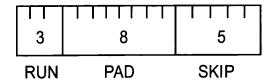


FIG. 30

8x8 region

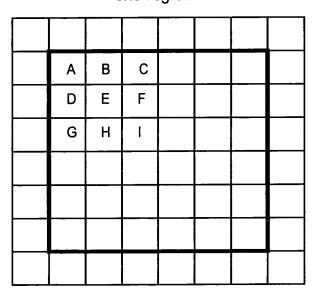


FIG. 31

